This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852.

Formerly C&GS 4186, 1st Ed., Oct. 1943; C-1543-596

19481

COLREGS, 80.1410 (see note A)
International Regulations for Preventing Collisions at Sea, 1972.
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

177° 30'

CONTINUED ON CHART 19480

177° 20'

Middle Ground

North Breakers

SEWARD ROADS

WELLES HARBOR

Pocket Pt.

SAND ISLAND
Approx. elevation 12 feet
AERO
Bn 379
Approx pos.

EASTERN I.
Approx. elev. 12 feet

NOTE B
For controlling depths in the dredged channels and basins of this chart consult the Naval Authorities

Frigate Pt.

DUMPING GROUND (Discontinued)

Disposal Area (depths from survey of 1959)

MAGNETIC

VAR 9°30' E (1990)

ANNUAL DECREASE 7'

Nautical Miles

Yards

LOGARITHMIC SPEED SCALE

To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots

P A C I F I C O C E A N

34' 32' 177° 30' 28' 26' 24' 22' 177° 20'

16' 14' 12' 10' 08' 06' 04' 25°

CONTINUED ON CHART 19480

CONTINUED ON CHART 19482

SOUNDINGS IN FATHOMS

9th Ed., Oct. 20/90 ■
19481

CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

CSS 418/7: 19481/990

SOUNDINGS IN FATHOMS

Formerly C&GS 4188, 1st Ed., Oct. 1943 C-1943-596

Nautical Chart Catalog No.

(CONTINUED ON CHART 19480)

177°20'

Nautical Miles

Yards

PROHIBITED AREA

Midway Islands are a naval Defenaive Sea Area and Air Space Reservation. No vessels or aircraft except those authorized by the Secretary of the Navy, shall be navigated on or above the area within the three-mile limit.

Note: The restriction imposed upon the use of the Naval Airspace Reservation has been suspended subject to reinstatement without notice at any time.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7, Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, Hawaii, or at the Office of the District Engineer, Corps of Engineers in Honolulu, Hawaii.

Refer to charted regulation section numbers.

CAUTION

Only marine radiobeacons have been calibrated for surface use. Limitations in the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

(XAccurate location) (AApproximate location)

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOAA

NATIONAL OCEAN SERVICE

UNITED STATES

HAWAIIAN ISLANDS

MIDWAY ISLANDS

Mercator Projection
Scale 1:32,500 at Lat. 28°10'
Reese Astro Datum of 1961 (Local)

SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER

TIDAL INFORMATION

Place Name	(LAT.,LONG.)	Height referred to datum of soundings: Mean Higher High Water (MHHW) feet	Mean High Water (MHW) feet	Mean Low Water (MLW) feet
Sand Island	(28°13'N/177°22'W)	1.1	0.9	0.0

(XX)

ABBREVIATIONS (For complete list of Symbols and Abbreviations see)

Aids to Navigation lights are white unless otherwise indicated.

AERO aeronautical — Al. alternating — Bn. beacon — Dstr. daymark — Fl. flashing — Iso. equal interval — Mo(A) Morse code "A" — Obscd. obscured — Occas. occasional — Or. orange — Oc. occulting — Q. quick — R. red — Vi. violet — W. white — Y. yellow

Bottom characteristics: Bldr. boulders — Co. coral — Gravel — M. mud — Rky. rocky — Sd. sand — Sh. shells — Sn. stones

Miscellaneous: Ach. anchorage — Obstr. obstruction — Prohib. prohibited — Rep. reported — Wk. wreck

HEIGHTS

Heights in feet above Mean High Water

AUTHORITIES

Hydrography and topography by the National Ocean Survey, Charting and Geodetic Services with additional information from Coast Guard and Defense Mapping Agency.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

PACIFIC OCEAN

SAND ISLAND
Approx. elevation 12 feet
AERO
Fl Bn 379 sec.
Approx pos.

EASTERN I.
Approx. elev. 12 feet

SEWARD ROADS

WELLES HARBOR

Middle Ground

North Breakers

Pickets Pt.

Frigate Pt.

NOTE B

For controlling depths in the dredged channels and basins of this chart consult the Naval Authorities.

ANCHORAGE

DUMPING GROUND (Discontinued)

Disposal Area
Depths from survey of 1959

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(Midway Islands)
SOUNDINGS IN FATHOMS - SCALE 1:32,500

19481